| Inde | ex of | Claim. | S |
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|      |       |        |   |

| Application No. |
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10/041,933

Examiner

iala

Srirama Channavajjala

2164

Art Unit

| √  | Rejected |
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| ı. | Allowed  |

| 1 | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| l | Interference |

| A | Appeal   |
|---|----------|
| o | Objected |

Applicant(s)

BATES ET AL.

| Cla      | aim      | Date          |                        |          |          |              |              | Claim Date   |                 |   |              |          | ]            | CI                | aim      | Date     |          |                         |         |         |          |       |            |          |                 |              |           |           |          |          |          |          |
|----------|----------|---------------|------------------------|----------|----------|--------------|--------------|--|-----------------|---|--------------|----------|--------------|-------------------|----------|----------|----------|-------------------------|---------|---------|----------|-------|------------|----------|-----------------|--------------|-----------|-----------|----------|----------|----------|----------|
| l _      | <u></u>  | s             |                        |          |          |              |              |  |                 |   | _ :          | 10       |              |                   |          |          | 1        |                         | 1       |         |          | _     | <u> </u>   |          |                 |              |           |           |          | - 1      |          | -        |
| Final    | Original | 4/15/05       |                        |          |          |              |              |  |                 |   | Final        | Original |              |                   |          |          |          | ł                       | 1       |         |          | Final | Original   |          |                 |              | İ         |           | - 1      |          | - 1      |          |
| Œ        | ŏ        | 4             |                        |          |          |              |              | l  |                 |   | Œ            | ō        |              |                   |          |          |          |                         |         |         |          | Œ     | ö          |          |                 |              | 1         |           |          |          |          |          |
| <u> </u> |          | Ŀ             | $\vdash$               | _        | _        |              | H            | ⊢  | Н               | _ |              |          | $\vdash$     | Н                 | -        | $\dashv$ | -        | +                       | ┿       | +       |          |       | 101        | -        |                 | +            | +         | +         | $\dashv$ | +        | +        | ᅱ        |
| 2        | 2        | ==            | $\left  \cdot \right $ | -        | _        |              |              | $\vdash$   | $\vdash$        |   |              | 51<br>52 |              | Н                 |          | $\dashv$ | ╬        | - -                     | ╂       | ╁       |          |       | 102        |          |                 | ╅            | +         | $\dashv$  | -+       | $\dashv$ | +        | ᅱ        |
|          | 3        | -             | $\vdash$               | -        | -        |              |              | ┢  | Н               | _ |              | 53       | $\vdash$     | Н                 | -        | $\dashv$ |          | - -                     | ╁       | +       | łiiii    |       | 103        | -        | -               | ╅            | $\dashv$  | $\dashv$  | $\dashv$ | $\dashv$ | +        | ᅥ        |
| 3        | 4        | =             | H                      | _        | _        |              |              | Н  | Н               |   |              | 54       | $\vdash$     |                   |          | $\dashv$ | ╅        | - -                     | +-      | 十       | 1        |       | 104        | $\neg$   | _               | $\dashv$     | +         | +         | $\dashv$ | $\dashv$ | +        | ᅥ        |
| 4        | 5        | =             | Н                      | -        |          |              |              | T  | H               |   |              | 55       | $\vdash$     |                   |          | 7        | $\top$   | $\top$                  | +       | +       | 1        |       | 105        |          |                 | $\top$       | +         | 7         | 寸        | 十        | $\top$   | ┪        |
| 5        | 6        | =             | П                      |          |          |              |              | Г  | П               |   |              | 56       |              | П                 |          | 寸        | 丁        |                         | 1       | 1       | 1        |       | 106        |          |                 | T            | 7         | ┪         | $\neg$   | ヿ        | 丁        | ٦        |
| 6        | 7        | =             |                        |          |          |              |              |  |                 |   |              | 57       |              |                   |          |          |          |                         |         |         | ]        |       | 107        |          |                 |              |           |           |          |          |          |          |
| 7        | 8        | =             | Ш                      |          |          |              | $oxed{oxed}$ |  |                 |   |              | 58       |              |                   |          |          |          |                         | L       | 1_      |          |       | 108        |          |                 | $\perp$      | $\perp$   | $\perp$   |          | $\perp$  |          |          |
| 8        | 9        | =             | Щ                      |          |          |              | $oxed{oxed}$ | 匚  | Ш               |   |              | 59       | <u> </u>     |                   | $\Box$   | _        | $\perp$  | ᆚ                       | ┸       | $\perp$ |          |       | 109        |          |                 | $\perp$      | 1         | 4         | 4        | 4        | $\perp$  |          |
| 9        | 10       | =             | Щ                      |          |          |              | _            | <u> </u>   | Ш               |   |              | 60       | <u> </u>     |                   |          | 4        | 4        | $\perp$                 | $\perp$ | 1       |          |       | 110        | _        |                 | _            | $\perp$   | _         | 4        | $\dashv$ | $\dashv$ | 4        |
| 10       | 11       | =             | $\mid - \mid$          |          | <u> </u> | <b> </b>     | ļ            | ⊢  | $\vdash$        |   |              | 61       | <u> </u>     | Щ                 | $\sqcup$ | 4        | $\perp$  | +                       | $\perp$ | 1       |          |       | 111        | _        |                 | 1            | $\perp$   | 4         | _        | 4        | $\dashv$ | 4        |
| 11       | 12       | =             | $\vdash \vdash$        | -        |          | $\vdash$     | $\vdash$     | -  | $\vdash$        | - |              | 62       | ├-           | $\vdash$          |          | +        | +        | +                       | +       | +       | 1        | _     | 112        | -        | +               | +            | +         | $\dashv$  | $\dashv$ | +        | +        | 4        |
| 12<br>13 | 13       | =             | $\vdash \vdash$        | -        | -        | $\vdash$     | -            | -  | Н               | - |              | 63<br>64 | <del> </del> |                   | $\dashv$ | +        | +        | +                       | +       | +       | ł        | -     | 113<br>114 | $\dashv$ | -               | +            | +         | $\dashv$  | $\dashv$ | +        | $\dashv$ | $\dashv$ |
| 14       | 15       | Ē             | $\vdash \vdash$        | -        | -        |              | $\vdash$     | $\vdash$   | Н               |   | <b>-</b>     | 65       | -            | $\vdash$          | -        | $\dashv$ | +        | +                       | +       | +       |          |       | 115        | -        | -               | +            | +         | $\dashv$  | $\dashv$ | +        | +        | $\dashv$ |
| 15       | 16       | =             | $\vdash$               | -        | -        |              | $\vdash$     | $\vdash$   | Н               |   |              | 66       | -            |                   | -        | _        | +        | +                       | +-      | +-      | 1        |       | 116        | $\dashv$ | -               | $\pm$        | +         | $\dashv$  | $\dashv$ | +        | +        | $\dashv$ |
| 16       | 17       | =             | Н                      |          |          |              |              | -  | Н               |   |              | 67       |              |                   | $\dashv$ | _        | $\dashv$ | +                       | +       | +       | 1        |       | 117        | $\neg$   | -               | $^{+}$       | +         | $\dashv$  | $\dashv$ | $\dashv$ | $\dashv$ | ᅥ        |
| 17       | 18       | =             | $\Box$                 |          |          |              | -            | 1  | П               |   |              | 68       |              | Н                 |          | _        | $\top$   | $\top$                  | +       | T       | 1        |       | 118        |          |                 | $\top$       | +         | 十         | $\dashv$ | 十        | +        | ᅥ        |
| 18       | 19       | =             |                        |          | _        |              |              |  | П               |   |              | 69       |              |                   |          |          | $\top$   | $\top$                  | $\top$  | 1       | 1        |       | 119        |          |                 | 7            | _         | 十         | $\dashv$ | 十        | $\dashv$ | ヿ        |
| 19       | 20       | =             |                        |          |          |              |              | Г  | П               |   |              | 70       |              |                   |          |          | $\neg$   | $\top$                  | $\top$  | 1       | 1        |       | 120        |          |                 | T            | 寸         | 寸         | 寸        | 寸        | T        | ヿ        |
| 20       | 21       | =             |                        |          |          |              |              |  | П               |   |              | 71       |              |                   |          |          | T        | $\top$                  |         | 1       | 1        |       | 121        |          | $\neg$          | T            | T         | 寸         | $\neg$   | 寸        | T        | ٦        |
| 21       | 22       | =             |                        |          |          |              |              |  |                 |   |              | 72       |              |                   |          |          |          |                         |         |         | ]        |       | 122        |          |                 |              |           |           |          |          |          |          |
| _22_     | 23       | =             |                        |          |          |              |              | $ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{L}}}}$ |                 |   |              | 73       |              |                   |          |          |          |                         |         |         |          |       | 123        |          |                 |              |           |           | $\Box$   | $\perp$  |          |          |
| 23       | 24       | 트             |                        |          |          |              | $oxed{oxed}$ |  | Ш               |   |              | 74       |              |                   |          |          | _        | ┸                       | _       | $\perp$ |          |       | 124        |          |                 | _            | $\perp$   | 4         | 4        | $\dashv$ | _        | ┙        |
| 24       | 25       | =             | Щ                      |          | _        |              | _            | _  | Ш               |   |              | 75       |              |                   | _        |          | _        | _                       | _       | _       |          |       | 125        |          | $\perp$         | _            | 4         | _         | _        | _        | _        | _        |
| 25       | 26       | =             | Ш                      | _        |          |              |              | <u> </u>   | Ш               |   | ļ            | 76       | ļ            | _                 | $\dashv$ |          | -        | - -                     | _       | 1       |          |       | 126        | _        | $\perp$         | 4            | 4         | 4         | 4        | $\dashv$ | $\dashv$ | _        |
| 26       | 27       | =             | $\vdash$               |          | _        |              |              | H  | Н               |   | <u> </u>     | 77       | -            | -                 | -        |          | -        | +                       | +       | ╀       |          |       | 127        | _        | -               | +            | +         | $\dashv$  | +        | -+       | $\dashv$ | 4        |
| 27       | 28<br>29 | =             | Н                      |          |          |              | -            | -  | $\vdash$        |   | -            | 78<br>79 |              |                   | $\dashv$ | _        |          | +                       | ╀       | ╁       | ┨        |       | 128<br>129 | -        |                 | +            | ┽         | $\dashv$  |          | $\dashv$ | +        | $\dashv$ |
| 29       | 30       | =             | -                      | -        | _        |              | H            | -  | $\vdash$        |   | <u> </u>     | 80       | $\vdash$     | Н                 | -        | -        | -        | +-                      | ╂╌      | ╁       | 1        |       | 130        | _        | -               | +            | +         | $\dashv$  | $\dashv$ | +        | +        | $\dashv$ |
| 25       | 31       | <del> -</del> |                        | _        | _        | $\vdash$     |              |  | Н               |   |              | 81       | $\vdash$     |                   | $\dashv$ | -        |          | ╁                       | ╁       | ╁       | 1        |       | 131        | -        | +               | +            | +         | ┪         | $\dashv$ | +        | +        | ㅓ        |
| <u> </u> | 32       | _             | Н                      |          |          |              |              |  | Н               |   | -            | 82       | -            |                   |          | -        | +        | +                       | +       | T       | 1        |       | 132        | ┪        | -               | +            | +         | +         | $\dashv$ | $\dashv$ | +        | ᅥ        |
| _        | 33       |               |                        |          |          |              |              |  | П               |   |              | 83       | $\vdash$     |                   |          | _        | $\dashv$ | $\top$                  | $\top$  | T       |          |       | 133        |          |                 | $\top$       | 十         | $\dashv$  | -        | $\dashv$ | 十        | ㅓ        |
|          | 34       | Г             | Н                      |          |          | Г            |              |  | П               |   |              | 84       |              | $\vdash$          | $\neg$   | $\dashv$ | $\dashv$ | 十                       | $\top$  | $\top$  | 1        |       | 134        | T        | $\neg \uparrow$ | $\dagger$    | $\top$    | 7         | _        | 十        | $\dashv$ | ᅥ        |
|          | 35       |               |                        |          |          |              |              |  |                 |   |              | 85       |              |                   |          |          |          |                         | Ι       | 1       | ]        |       | 135        |          |                 | _            | $\top$    | ╛         | _†       | ⇉        | $\top$   | ٦        |
|          | 36       |               |                        |          |          |              |              |  |                 |   |              | 86       |              |                   |          |          | ↿        | L                       |         | L       |          |       | 136        |          |                 |              |           |           |          | $\Box$   |          |          |
|          | 37       |               |                        |          |          |              |              |  |                 |   |              | 87       |              |                   |          |          |          | $oldsymbol{\mathbb{L}}$ | $\prod$ |         |          |       | 137        |          |                 | $\prod$      | $\perp$   | $\Box$    | $\Box$   | $\prod$  |          | $\Box$   |
|          | 38       |               | Ш                      | _        |          | <u> </u>     | <u> </u>     | <u> </u>   | Ш               |   |              | 88       |              | Ш                 | $\Box$   |          | $\perp$  |                         | $\perp$ |         |          |       | 138        |          |                 | _            | _[        | $\perp$   |          | 4        | $\perp$  | ᆜ        |
| <u> </u> | 39       | <u> </u>      | $\sqcup$               | _        |          | <u> </u>     | $\vdash$     | _  | Ш               |   |              | 89       | <u> </u>     | $\sqcup$          |          | _        | 4        | 4-                      | +       | 4       |          |       | 139        | $\Box$   | _               | 4            | 4         | 4         | _        | 4        | $\dashv$ | $\dashv$ |
|          | 40       | _             | dash                   | _        |          |              |              | -  | $\vdash$        |   |              | 90       | _            | $\square$         | $\dashv$ | 4        | _        | $\bot$                  | +       | +       | ł        |       | 140        | _        |                 | $\bot$       | +         | $\dashv$  | _        | -        | $\dashv$ | 4        |
| $\vdash$ | 41       | <u> </u>      | $\vdash \vdash$        | _        | _        | <del> </del> | $\vdash$     | <u> </u>   | $\vdash$        |   | <u> </u>     | 91       | $\vdash$     | $\vdash$          | $\dashv$ | $\dashv$ | +        | +                       | +       | +       |          |       | 141        |          | -               | $\downarrow$ | 4         | 4         | 4        | $\dashv$ | $\dashv$ | ᆚ        |
| $\vdash$ | 42<br>43 | <u> </u>      | $\vdash \vdash$        | $\dashv$ | _        | -            | $\vdash$     | $\vdash$   | $\vdash \vdash$ |   | <del> </del> | 92<br>93 | -            | Н                 | $\dashv$ | +        | +        | +                       | +       | +       | <b>{</b> |       | 142        |          | $\dashv$        | +            | +         | +         | $\dashv$ | $\dashv$ | $\dashv$ | 긕        |
|          | 44       | -             | $\vdash \vdash$        | $\dashv$ | _        |              | $\vdash$     | ⊢  | Н               |   |              | 94       | $\vdash$     | $\vdash$          | $\dashv$ | $\dashv$ | $\dashv$ | +                       | +       | +       | ł::::    |       | 143<br>144 | $\dashv$ | +               | +            | +         | +         | +        | $\dashv$ | +        | $\dashv$ |
| <u> </u> | 45       |               | $\vdash \vdash$        | -        | -        |              | $\vdash$     | $\vdash$   | $\vdash$        |   |              | 95       | $\vdash$     | -                 | -        | $\dashv$ | +        | ╁                       | +       | +       | ł        |       | 145        | -1       | +               | +            | +         | +         | $\dashv$ | +        | +        | ᅱ        |
| <u> </u> | 46       | $\vdash$      | $\vdash$               | -        |          |              | $\vdash$     | $\vdash$   | $\vdash$        |   |              | 96       | $\vdash$     | $\vdash$ $\dashv$ | -        | $\dashv$ | +        | +                       | +-      | +-      |          |       | 146        | $\dashv$ | +               | +            | +         | $\dashv$  | $\dashv$ | +        | +        | ㅓ        |
|          | 47       | Н             | Н                      |          |          | -            |              | $\vdash$   | $\vdash$        |   |              | 97       | H            | $\dashv$          | $\dashv$ | $\dashv$ | $\dashv$ | +                       | +       | +       | 1        | l     | 147        |          | +               | +            | +         | $\forall$ | $\dashv$ | $\dashv$ | +        | ᅱ        |
|          | 48       |               | $\Box$                 |          |          |              | П            |  | Н               |   |              | 98       | Ħ            |                   | 7        | 十        | $\dashv$ | 1                       | 1       | †       |          |       | 148        | $\dashv$ | $\neg$          | $\dagger$    | $\dagger$ | $\dashv$  | $\dashv$ | $\top$   | +        | ᅥ        |
|          | 49       |               |                        |          |          |              |              |  | П               |   |              | 99       |              |                   | $\dashv$ | $\neg$   | $\top$   | 丅                       | 1       |         | 1        |       | 149        | 寸        | $\neg \vdash$   | T            | 十         | $\dashv$  | $\dashv$ | $\top$   | 十        | ヿ        |
|          | 50       |               |                        |          |          |              |              |  |                 |   |              | 100      |              |                   |          |          | I        |                         |         |         | ]        |       | 150        |          |                 | 1            |           | J         |          | I        | $\Box$   | ╛        |